

Bus system cable - SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 1 m



Key Commercial Data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 STK |
| Weight per Piece (excluding packing) | 105.800 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|-------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | B - inverse |
| Signal type/category | INTERBUS, 16 Mbps |
| Status display | No |
| Overvoltage category | II |

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Technical data

General

| | |
|-----------------------------|------------------------|
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|--|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 66 |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Pin assignment

| | |
|--|----------------------------------|
| Position = wire color (signal) = position (optional) | 1 (Plug) = YE (DO) = 1 (Socket) |
| | 2 (Plug) = GN (DO) = 2 (Socket) |
| | 3 (Plug) = GY (DI) = 3 (Socket) |
| | 4 (Plug) = PK (DI) = 4 (Socket) |
| | 5 (Plug) = BN (GND) = 5 (Socket) |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Cable

| | |
|---|--------------------------------------|
| Cable type | INTERBUS |
| Cable type (abbreviation) | 900 |
| Conductor cross section | 0.22 mm ² |
| AWG signal line | 24 |
| Conductor structure signal line | 32x 0.10 mm |
| Wire colors | Green-yellow, white-brown, gray-pink |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 3 pairs to the core |
| Shielding | Braided copper wires |
| External sheath, color | green RAL 6017 |
| External cable diameter | 8.00 mm |
| Smallest bending radius, fixed installation | 60 mm |
| Smallest bending radius, movable installation | 120 mm |
| Number of bending cycles | 5000000 |
| Bending radius | 120 mm |

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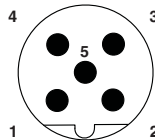
Technical data

Cable

| | |
|---------------------------------|---|
| Traversing path | 10 m |
| Traversing rate | 1.6 m/s |
| Acceleration | 3.2 m/s ² |
| Cable weight | 70 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | > 5 GΩ*km |
| Conductor resistance | ≤ 159.8 mΩ/m |
| Working capacitance | 60 nF (At 800 Hz) |
| Signal speed | 0.66 c |
| Nominal voltage, cable | 250 V |
| Test voltage Core/Core | 1500 V |
| Test voltage Core/Shield | 1000 V |
| Flame resistance | IEC 60332-1 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -30 °C ... 70 °C (cable, flexible installation) |

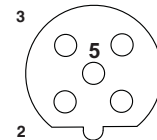
Drawings

Schematic diagram



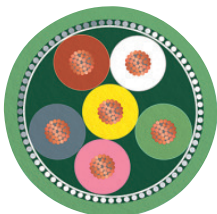
Pin assignment M12 male connector, 5-pos., B-coded, male side

Schematic diagram

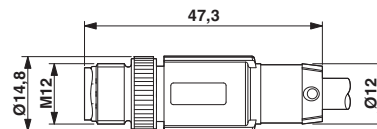


Pin assignment M12 socket, 5-pos., B-coded, female side

Cable cross section



Dimensional drawing

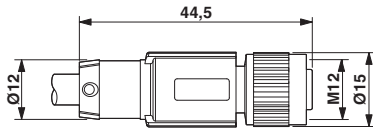


INTERBUS [900]

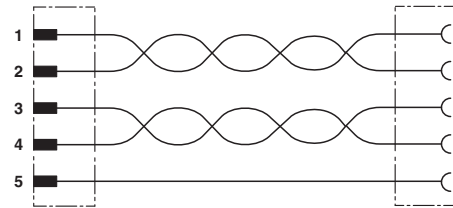
Plug, M12 x 1, straight, shielded

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Dimensional drawing



Circuit diagram



M12 x 1 socket, straight, shielded

Contact assignment of the M12 connector and the M12 socket

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

| |
|-------------------|
| EAC EAC-Zulassung |
|-------------------|
